

FIG. 1A

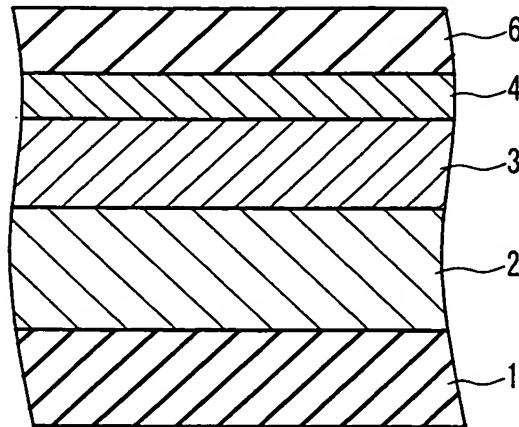


FIG. 1D

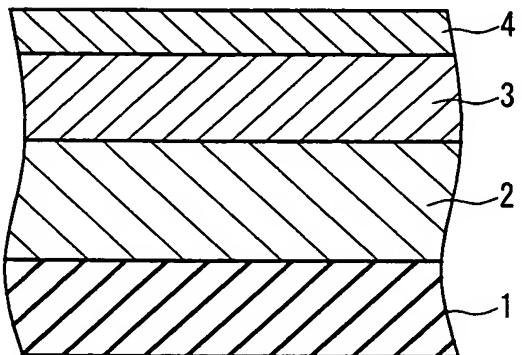


FIG. 1B

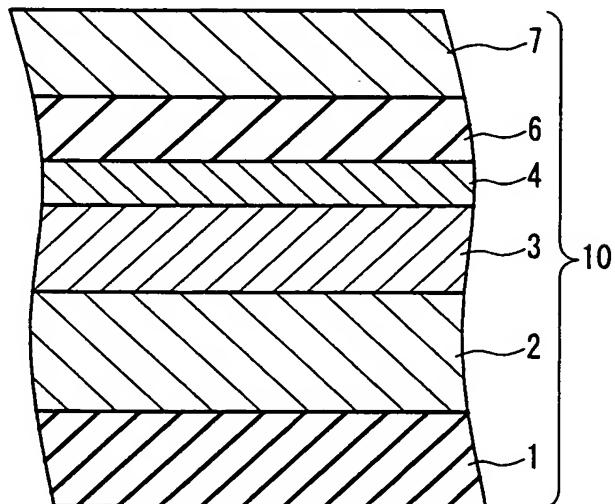


FIG. 1E

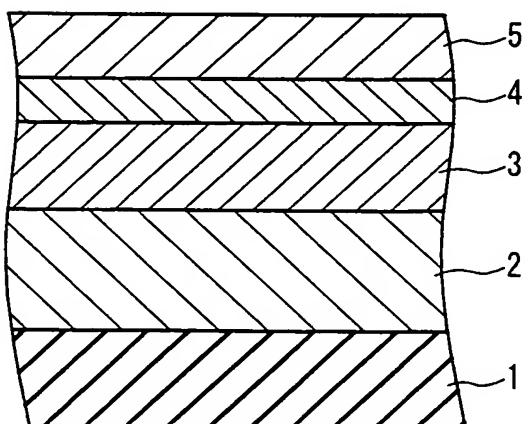


FIG. 1C

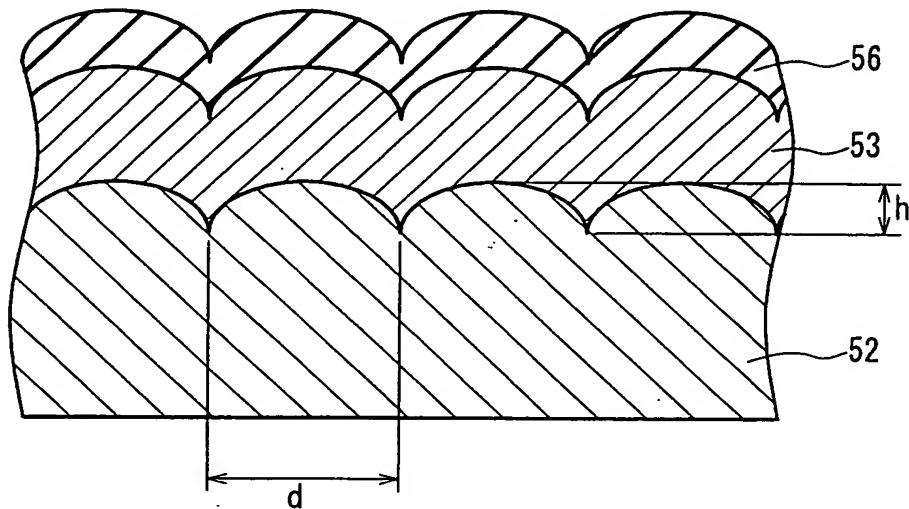


FIG. 2A  
PRIOR ART

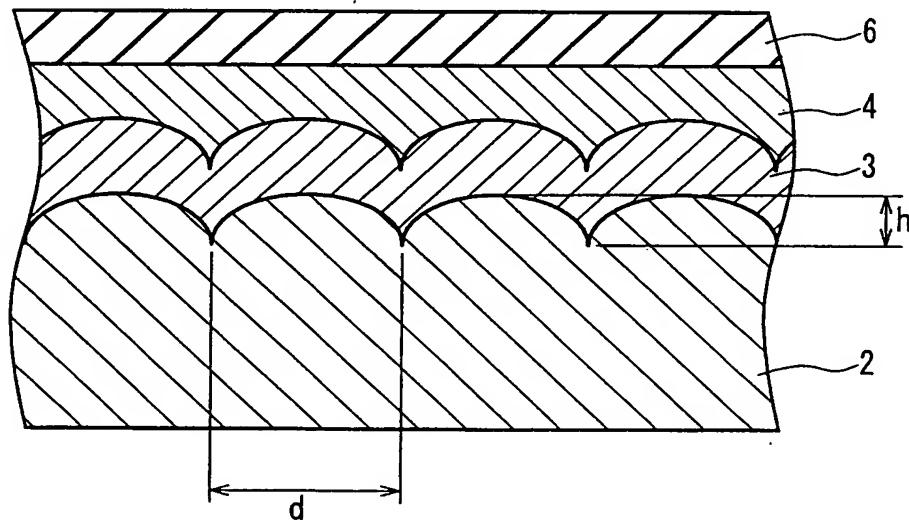


FIG. 2B

Inventor: SUGITA et al.  
Docket No.: 10873.1333USW1  
Title: MAGNETORESISTIVE ELEMENT AND METHOD FOR PRODUCING THE SAME,  
AS WELL AS MAGNETIC HEAD, MAGNETIC MEMORY AND MAGNETIC RECORDING  
DEVICE USING THE SAME  
Attorney Name: Douglas P. Mueller  
Phone No.: 612.371.5237  
Sheet 3 of 12

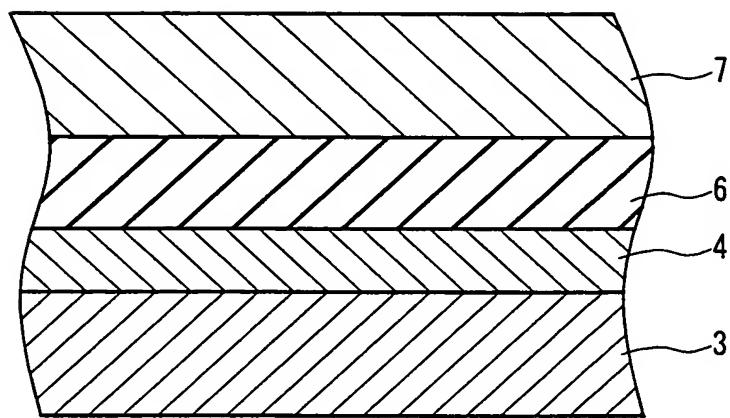


FIG. 3

Inventor: SUGITA et al.  
Docket No.: 10873.1333USW1  
Title: MAGNETORESISTIVE ELEMENT AND METHOD FOR PRODUCING THE SAME,  
AS WELL AS MAGNETIC HEAD, MAGNETIC MEMORY AND MAGNETIC RECORDING  
DEVICE USING THE SAME  
Attorney Name: Douglas P. Mueller  
Phone No.: 612.371.5237  
Sheet 4 of 12

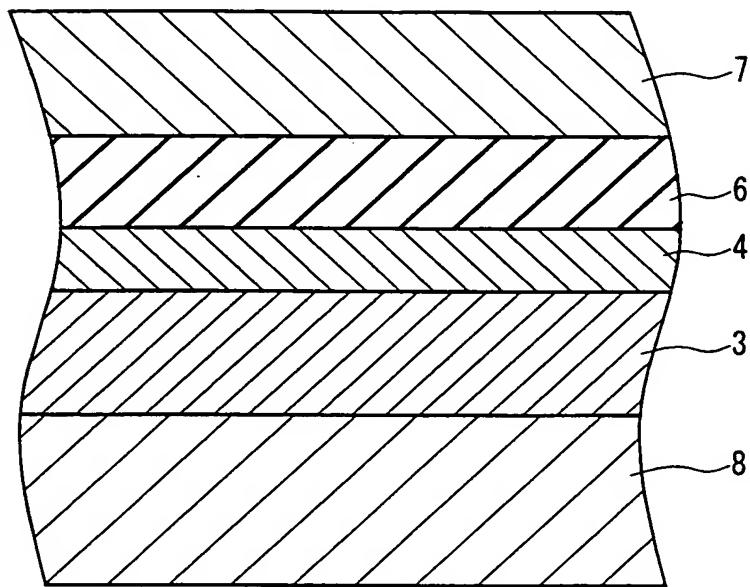


FIG. 4

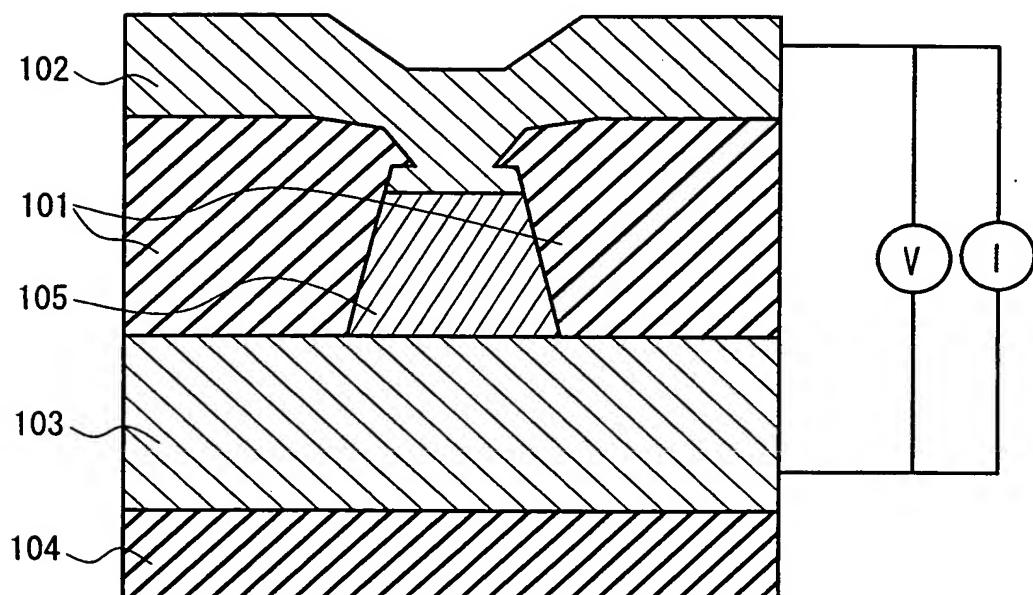


FIG. 5

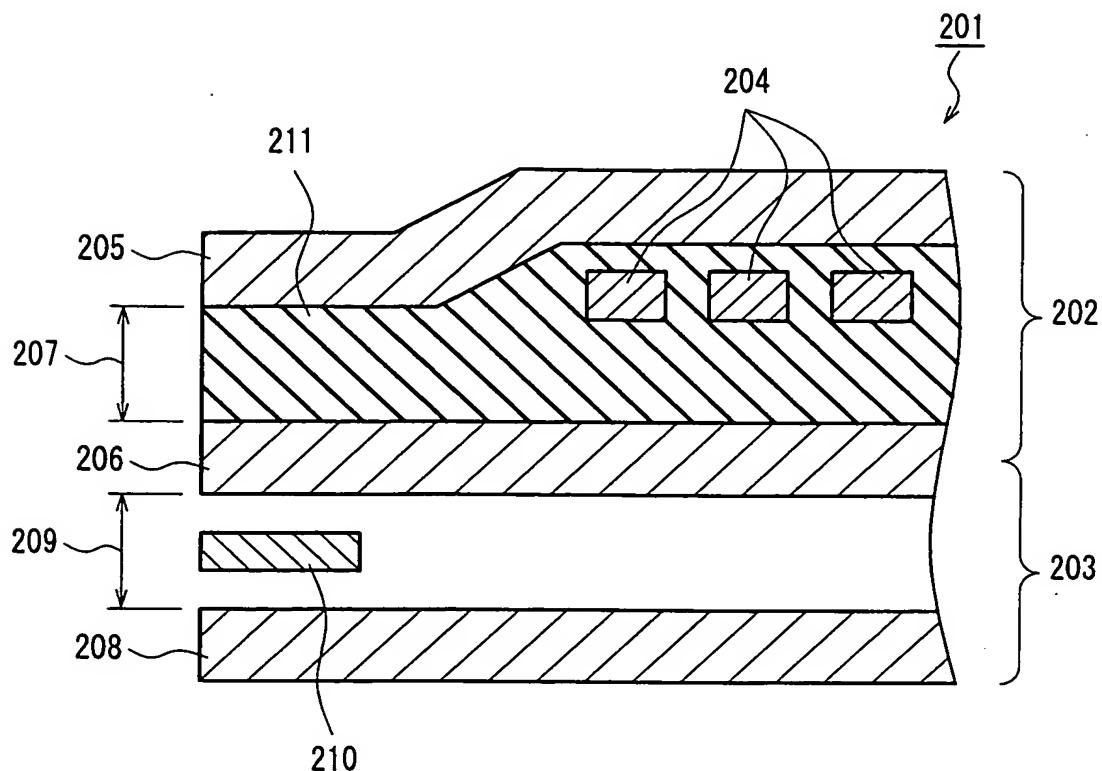


FIG. 6

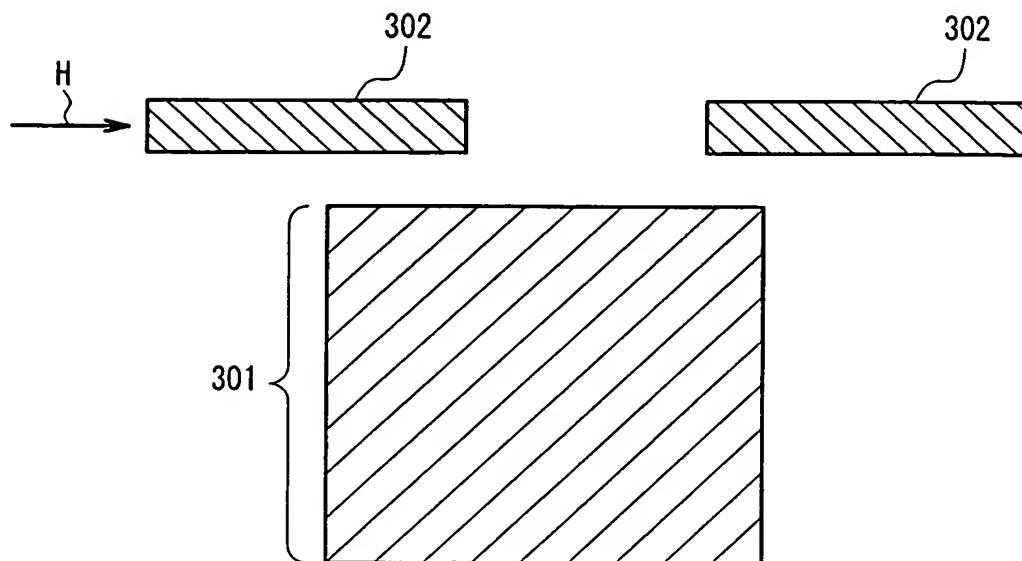


FIG. 7

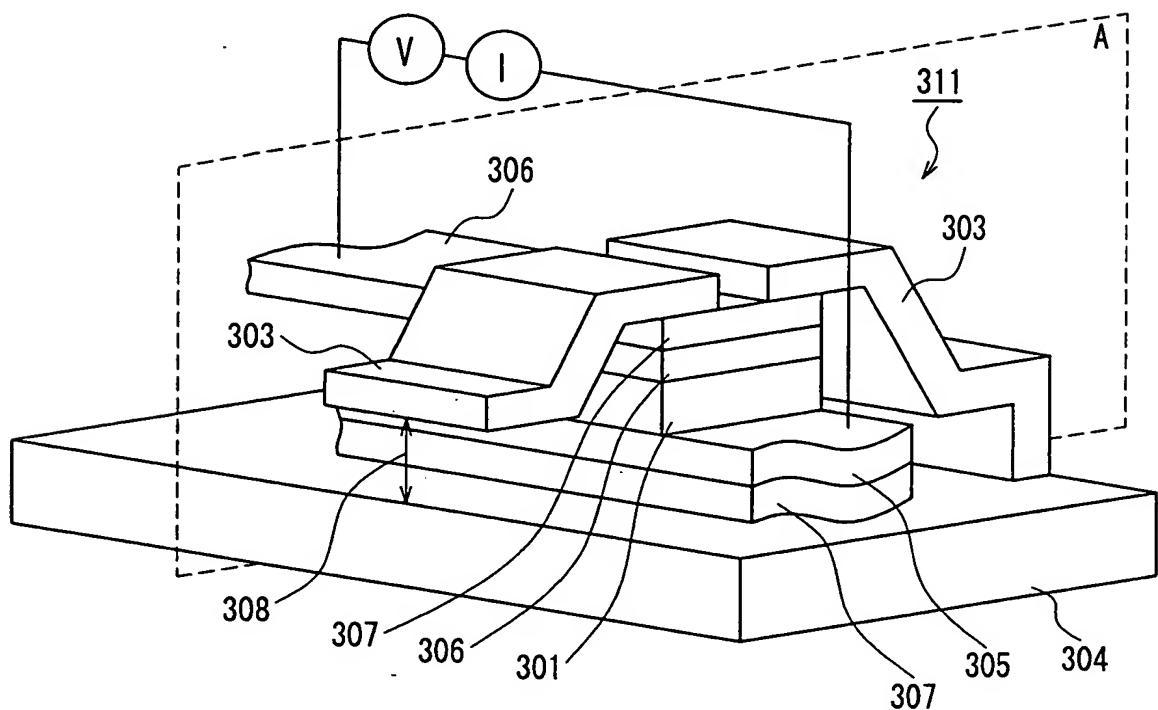


FIG. 8A

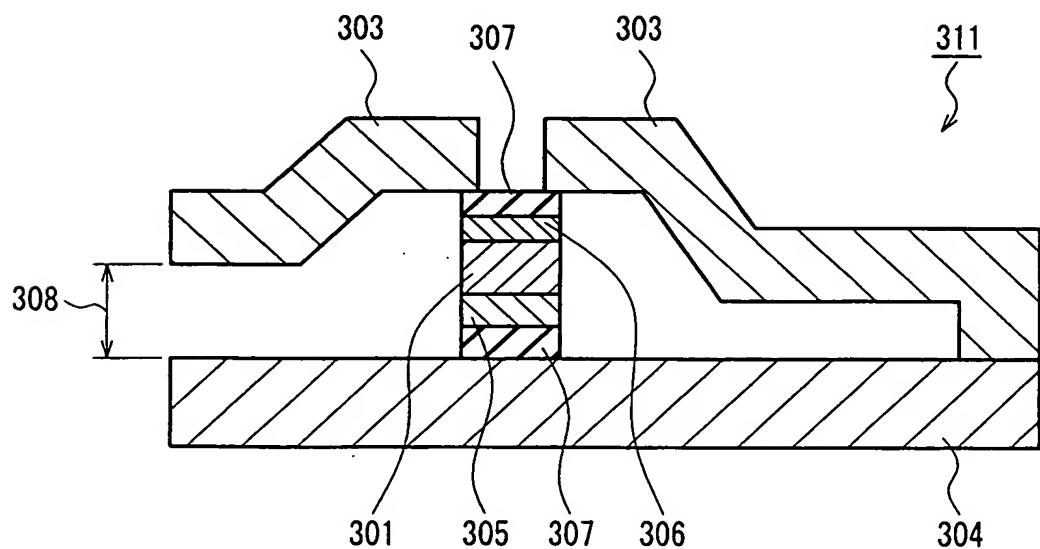


FIG. 8B

Inventor: SUGITA et al.  
Docket No.: 10873.1333USW1  
Title: MAGNETORESISTIVE ELEMENT AND METHOD FOR PRODUCING THE SAME,  
AS WELL AS MAGNETIC HEAD, MAGNETIC MEMORY AND MAGNETIC RECORDING  
DEVICE USING THE SAME  
Attorney Name: Douglas P. Mueller  
Phone No.: 612.371.5237  
Sheet 8 of 12

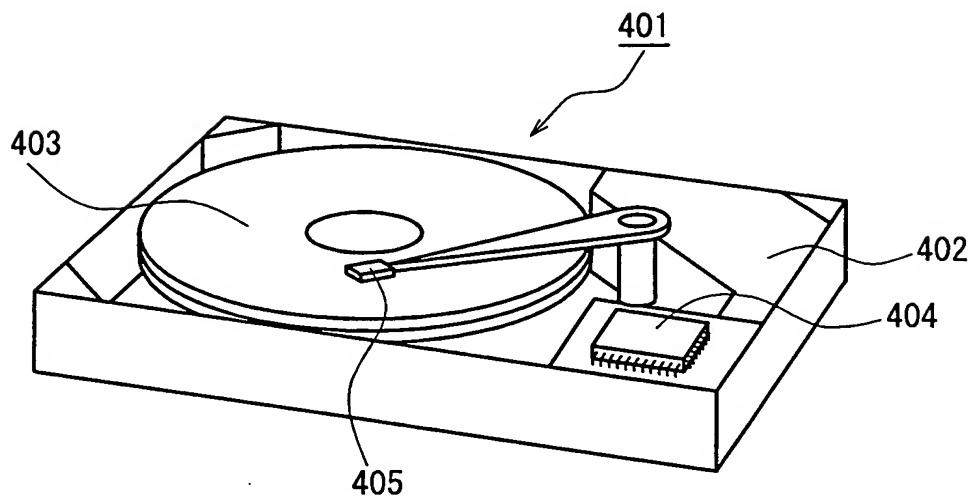


FIG. 9

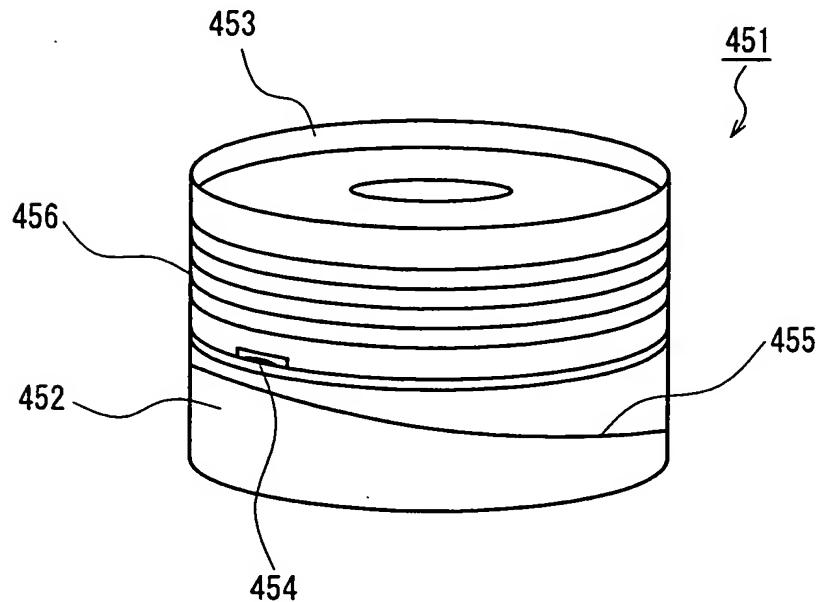


FIG. 10A

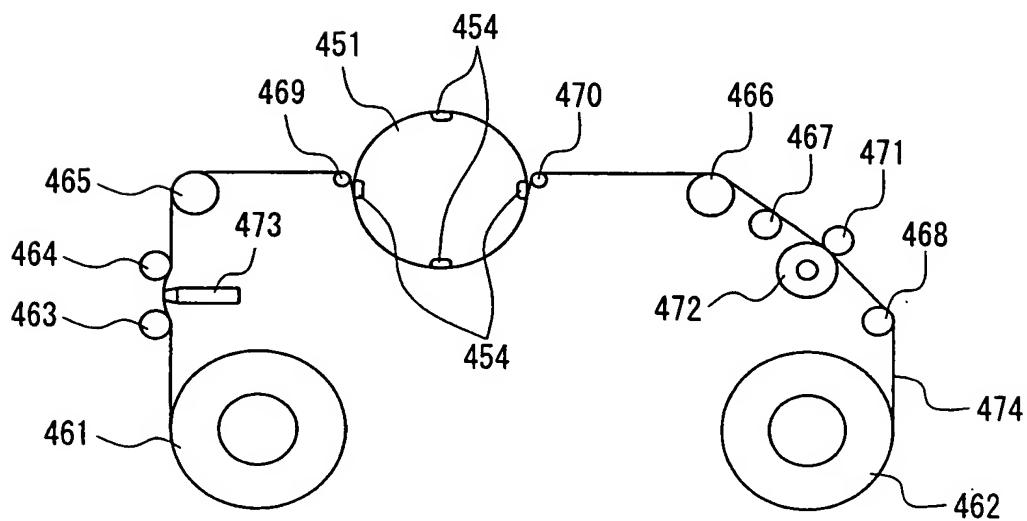


FIG. 10B

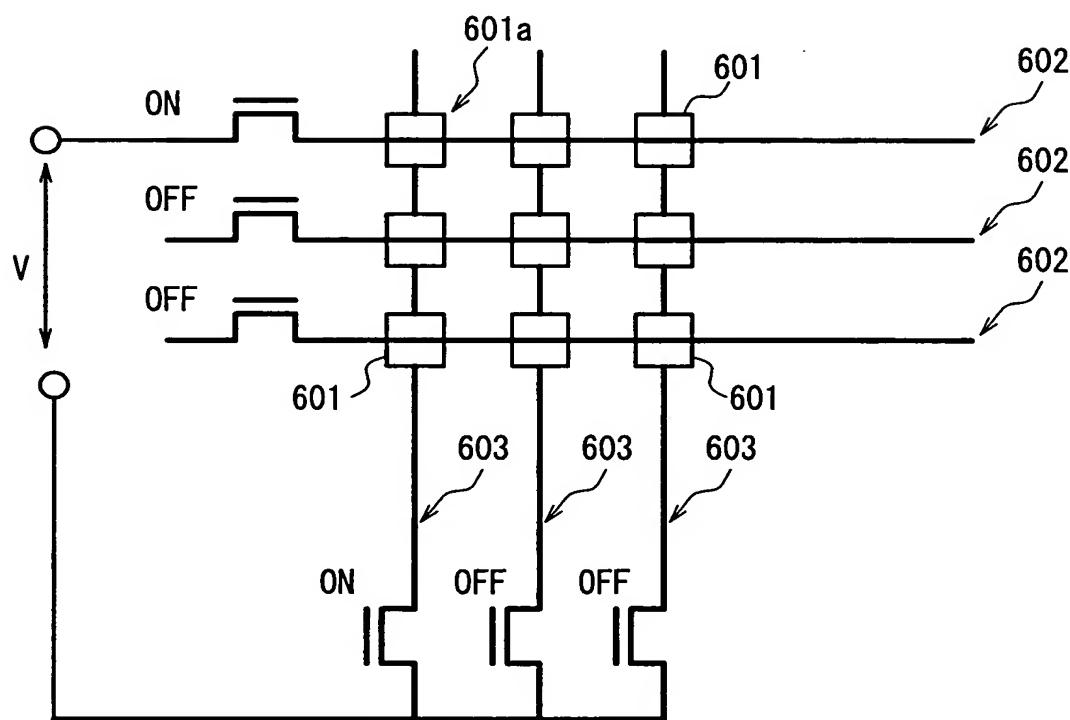
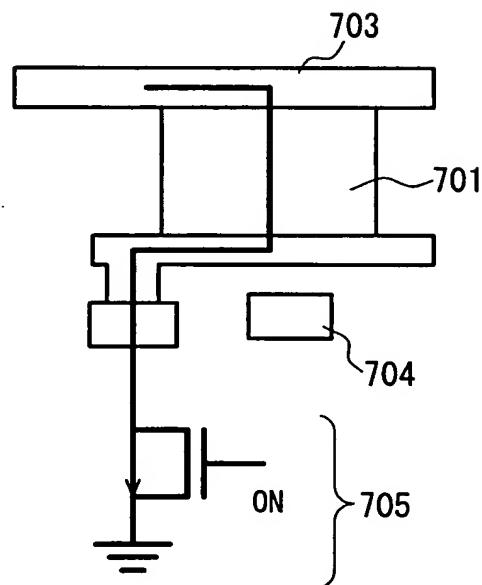
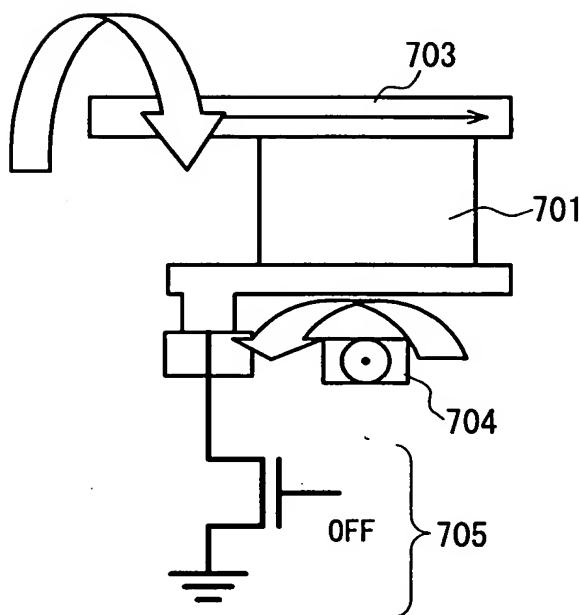


FIG. 11



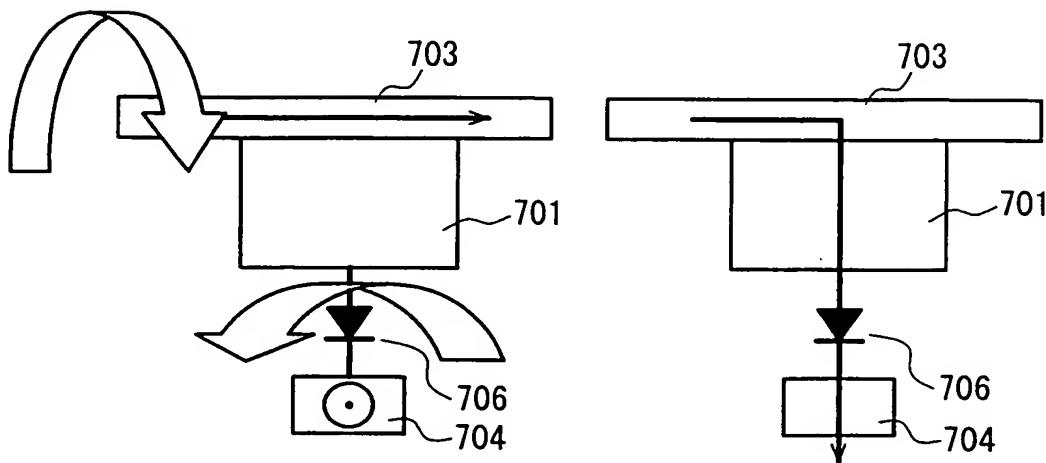


FIG. 13A

FIG. 13B

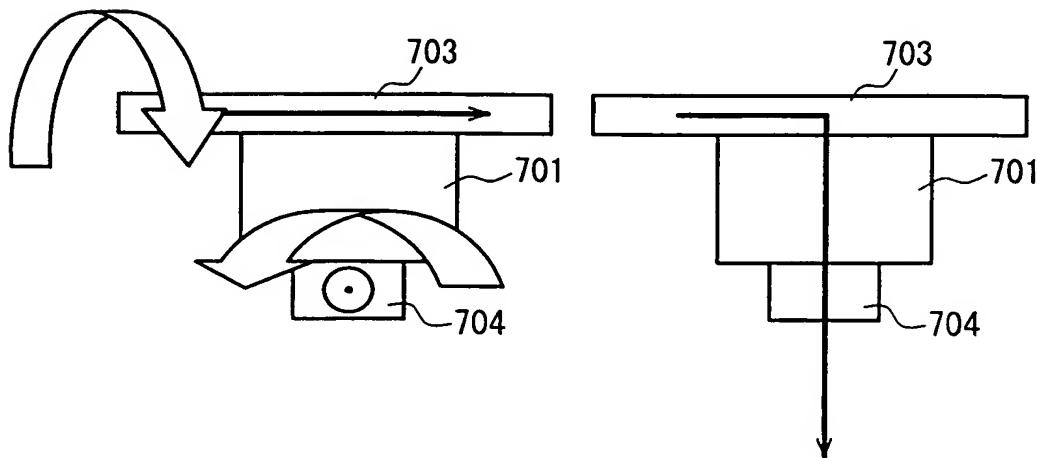


FIG. 14A

FIG. 14B